CONSORT VERVE





# Installation & Control Guide for Infrared Radiant Heater

## IRH10
## IRH20

All electrical appliances produced by the Company are guaranteed for one year against faulty materials or workmanship. This applies only if the appliance has been used for purposes in accordance with the instructions provided and has not been connected to an unsuitable electricity supply, or subject to misuse, neglect, damage or modified or repaired by any person not authorised by us. This guarantee is offered to you as an extra benefit and does not affect your legal rights.

The correct electricity supply voltage is shown on the rating label attached to the appliance.

Reasonable care has been taken to ensure that this guide is accurate at the time of printing. In the interest of progress the Company reserve the right to vary specifications from time to time without notice.

## Warning

- Clearance distance shall be followed.
- Do Not install the heater directly above a power outlet.
- Do NOT site the appliance in a corner.
- Do NOT use the appliance in workshops or rooms where excessive dust is generated or present.
- Do NOT touch outlet grille when in use.
- Do NOT use the appliance if damaged.
- Do NOT leave the appliance unattended where young children are present.
- Ensure nothing flammable is below the appliance.
- Ensure nothing is pushed into an aperture.
- If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

## Health and Safety

The appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance. You must also read and understand the following instructions concerning electrical safety.

- Ensure that the insulation of all the cables on the appliance is safe before connecting it to the power supply.
- Ensure that the cables are always protected against short circuit and overload.
- Regularly inspect the power supply cables and plugs etc. for wear or damage and check all connections to ensure that none are loose.
- Important: Ensure that the voltage marked on the appliance matches the power supply to be used and that a correctly rated breaker is fitted.
- DO NOT pull or carry the appliance by the power cable.
- DO NOT use worn or damaged cables, plugs or connectors. Immediately have any faulty item repaired or replaced by a qualified electrician.
- Installation should always be carried out by a qualified electrician or a competent person in accordance with current electrical regulation, protected by a suitably rated isolator and fuse.
- This heater is IPx4 rated and is suitable for outdoor use. To maintain the protection rating all connections to the mains must be done with a minimum of IPx4 equipment.
- The mains lead is made from high temperature cable, not a standard PVC cable and as such should not be replaced without consulting a suitable qualified electrician.
- Familiarise yourself with the applications and limitations of the heater.
- Ensure the heater is in good order and condition both physically and electrically before use. If in any doubt do not use the unit and contact an electrician.
- Disconnect from mains and allow to cool before moving or attempting any cleaning or maintenance.
- **DO NOT** install in areas where hazardous vapours may be present.
- **DO NOT** locate the heater below the power outlet.
- **DO NOT** move the heater whilst in operation or even when still warm.
- **DO NOT** disassemble the heater for any reason. This heater must be checked by qualified personnel only.
- If removed from its mounting position when not in use, store the heater carefully in a safe, dry, child proof location.
- **WARNING!** This heater is not equipped with a device to control the room temperature. Do not use this heater in a small room if it is occupied by people not capable of leaving the room on their own, unless constant supervision is provided.
- **WARNING!** Ensure the heater is at least 2m from any object and there is no possibility of inflammable materials coming into contact.

## Mounting Instructions

**IMPORTANT!** The following points should be noted for installation:

- ***The heater should always have a minimum clearance of 500mm from ceiling and at least 2000mm from any object or person.***
- Ensure that the mounting surface is capable of supporting the weight of the heater.
- When wall mounted, The heaters optimal angle is 45° degrees (Fig. 2). In this instance the cable must be located at the side as previously mentioned.
- If suspended on ceiling, the heater must be positioned horizontally as shown in Fig 3.
- **DO NOT** bolt heater bracket (Fig. 1) directly to ceiling as it will not have enough clearance.

Follow these steps for wall mounting:

1. Before drilling ensure that there are no wires or water pipes in the area where the heater is to be placed.
2. Use the bracket as a template. Fix the metal brackets to the wall by using a minimum of 3 holes and appropriate fixings (not supplied).
3. Fit the heater onto the brackets, adjust the angle of heater to direct heat where required.
4. Now tighten up the three bolts.

When suspending the heater from the ceiling, the heater bracket can be secured using catenary wire or M6 threaded rod.

Follow these steps for ceiling suspending:

1. Attach the catenary wire or threaded rod to the ceiling.
2. Affix the heater brackets to the heater using screws provided, ensuring the bracket is perpendicular to the heater as shown in Fig. 3.
3. Secure the catenary wire or threaded rod to the end of the heater bracket.

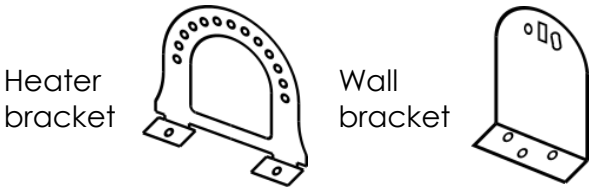



Fig. 1

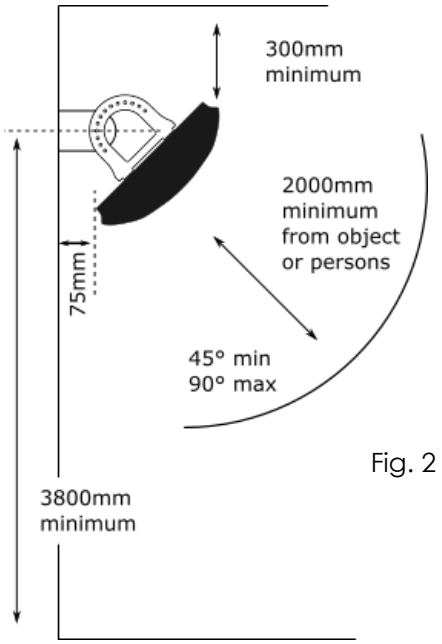



Fig. 2

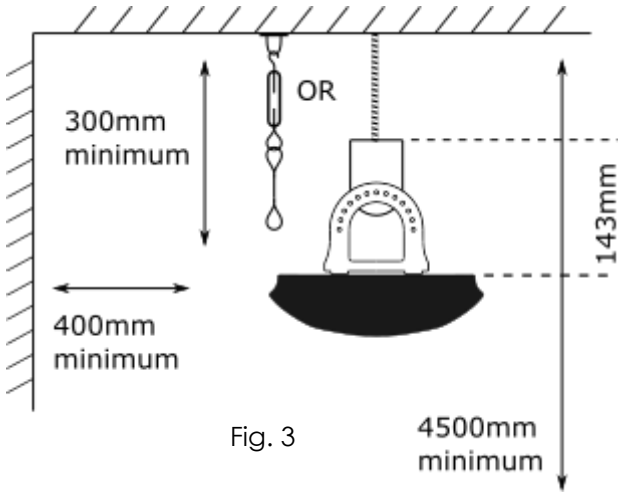



Fig. 3

**Weight of heater plus two brackets is 6.5kg.**

- Ensure the heater is at least 2000mm from any object. The heater can be tilted from 45° to 90°. Set it to the required angle before switching the heater on. Adjust the heater angle by loosening the bolt on the wall mounting bracket. Tighten the bolt again when the desired angle is reached.
- Make sure the heater is disconnected from the mains supply before any cleaning is attempted. Always allow the heater to cool completely.

## Specification

Supply: 230-240 Volts AC, 50 Hz, single phase.

This heater produces a totally dry heat, no condensation, no gas, no fumes and no smell. It reaches maximum heat output within minutes of being turned on and has its heating elements inside the front grille for maximum heat efficiency. It adjusts 45° to upright position while wall mounted. It is ideal for commercial applications.

## Cleaning

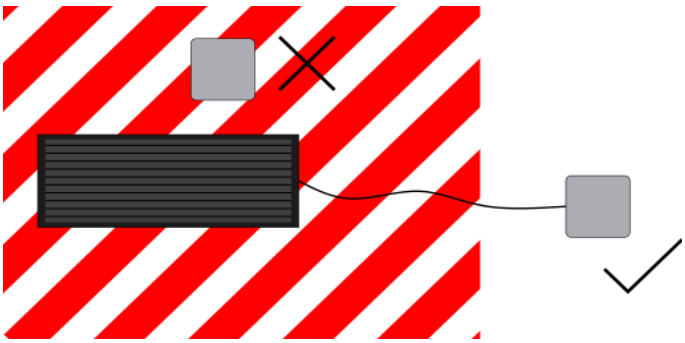
Always disconnect the heater from the mains and allow to cool before cleaning.

- You can carefully wipe the outer surface with dry cloth.

## Electrical connections

**WARNING:** Ensure that the electrical supply is isolated and made safe before making any electrical connections.

**WARNING: Do not place any electrical connections immediately behind or above the heater,** they shall be placed below or to the side of the heater as pictured below.



Electrical installation should be carried out by a competent installer, preferably registered with NICEIC (National Inspection Council for Electrical Installation Contracting) in accordance with the latest edition of the IEE Wiring Regulations, (BS.7671), and any relevant Local Authority Bye-Laws. This heater is fitted with a 3-core mains supply cable and SLEXT, it must be permanently connected to the electricity supply via a double pole switch having 3mm gap on each pole.

**There are no exceptions.**

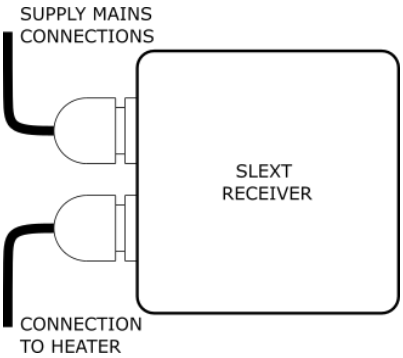
A recommended mains supply connection accessory is BS EN 60947, Part 3 compliant, to ensure safety requirements applicable to fixed wiring installation.

**WARNING:** This appliance must be earthed.

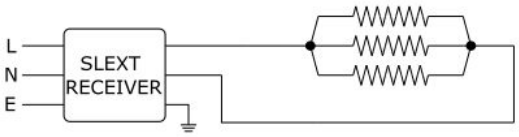
## SLEXT receiver

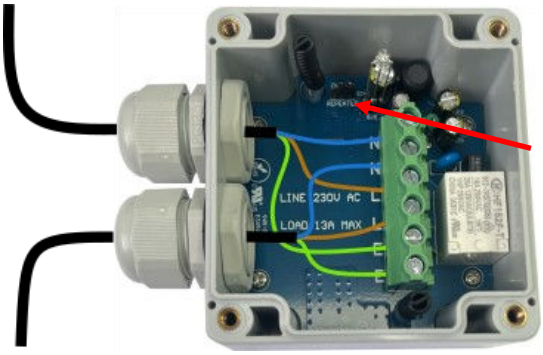
The IRH10 and IRH20 will be supplied with a Consort SLEXT receiver prewired. The SLEXT will act as a switching device to energize the heater when receiving a signal from any Consort controller. To prevent overheating, the unit must not be covered and should not be mounted directly above or behind a heater; a minimum side distance of 250mm from the heater is recommended.

**The SLEXT will not work without a Consort controller.**




HEATER INTERNAL WIRING




Ranger extender jumper switch

To pair the SLEXT to a controller will require switching off and on the power to the heater then, depending on the controller in use, the pairing sequence should be completed within 20 seconds.

1. Ensure controller is powered.
2. Cycle power to the heater (wait until status light on SLEXT disappears before re-energising the heater).
3. Within 20 seconds of powering the heater, depending on controller, press and hold the pairing button/buttons.
4. The SLEXT status light should show red.

## Consort Controllers

The SLEXT receiver unit and range extender can be paired with a wide range of Consort wireless controllers, offering flexible heating control for various applications. Compatible controllers range from simple timer and thermostat models such as the SLPB, SLPBWP, SLVT and SLVTB, to advanced 7-day programmable and Wi-Fi enabled controllers including the CRXSL, CRXSLWIFI and SLPBWIFI. This allows the SLEXT to be used in both basic and fully programmable heating systems.




SLPB




SLVT




SLPBWP




CRXSL




HRXSL

## SLEXT range extender

The SLEXT can also operate as an RF signal repeater to extend the wireless range between SL controllers and heaters. It receives and repeats the RF signal, helping maintain reliable communication across larger areas. The unit can switch loads up to 13A / 3000W resistive load.

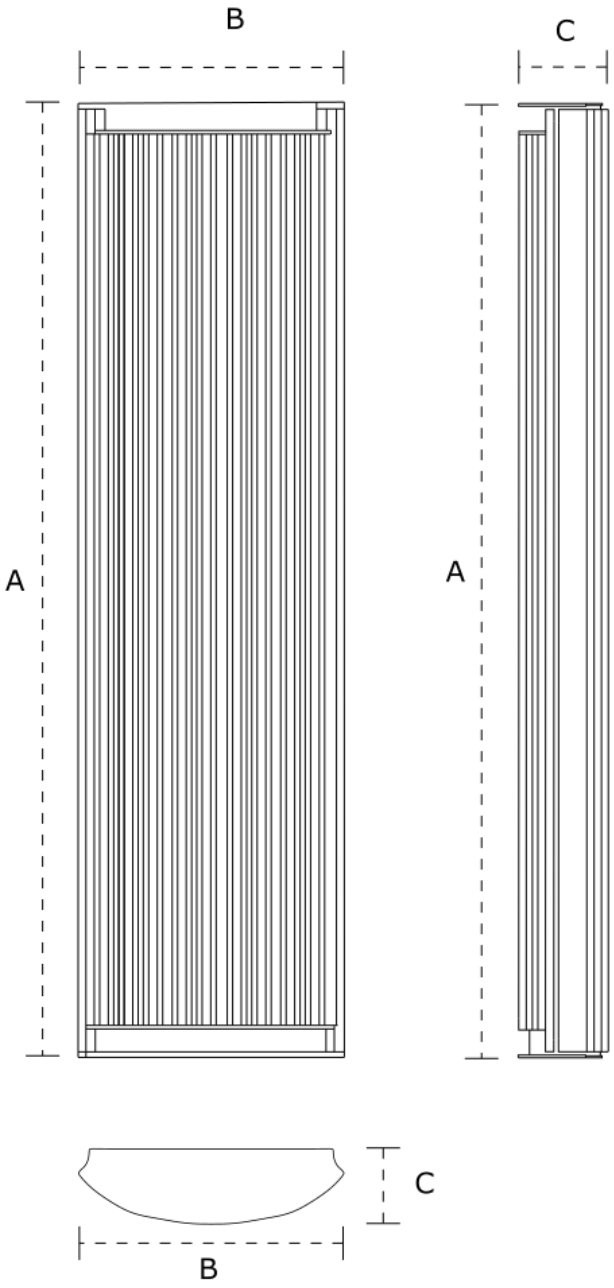
Internal jumper pins allow the RF repeater function to be enabled or disabled depending on the installation requirements. This allows the SLEXT to be configured either purely as a receiver unit or as both a receiver and signal extender.

## LED Status Indication

The SLEXT includes a dual-colour LED indicator to show operating status:
Green LED - mains power is connected and available to the unit.
Red LED - the output has been enabled by a paired wireless controller.

## Radiant Heater Dimensions

| (mm) | A | B | C |
|---|---|---|---|
| IRH10 | 600 | 188 | 66 |
| IRH20 | 1000 | 188 | 66 |



# Declaration Of Conformity

In accordance with UK Government Guidance.

WE HEREBY CERTIFY THAT THE APPLIANCES DETAILED HEREON HAVE BEEN INSPECTED AND TESTED, AND CONFORM TO THE REQUIREMENTS OF THE FOLLOWING UK STATUTORY INSTRUMENTS WHERE APPLICABLE:

**Electrical Equipment (Safety) Regulations 2016 SI. 2016 1101**
**Electromagnetic Compatibility Regulations 2016 SI. 2016 No. 1091**
**Radio Equipment Regulations 2017 SI. 2017 No. 1206**
**The Restriction of use of Certain Hazardous Substances. SI. 2012 No. 3032**
**The Waste Electrical & Electronic Equipment Regulations 2013. SI. 2013 No. 3113**
**Security Requirements for 'Connectable Products' PTSI ACT 2022**
**The Product Security and Telecommunications Infrastructure (Security Requirements for Relevant Connectable Products) Regulations 2023**

## Transposed standards used:

- **BS EN 55014-1:2021**
- **BS EN 301 489-1 & -3**
- **BS EN 300 220-1 & -2**
- **BS EN 60730-2-9:2019**
- **BS EN 60335-1:2012 + A15:2021**
- **EN 60335-2-30:2009 + A1:2020**
- **ETSI EN 303 645 V2.1.1 (2020)**
- **EN 50663:2017**
- **EN 60730-2-9:2019**
- **EN 60730-1:2016 + A1:2019**
- **ETSI EN 300 220-1 V3.1.1 (2017-02)**
- **ETSI EN 300 220-2 V3.2.1 (2018-06)**
- **ETSI EN 301 489-1 V2.2.3 (2019)**
- **ETSI EN 301 489-3 V2.1.1 (2019)**

**PART NUMBER AND DESCRIPTION OF APPLIANCE:** IRH10, IRH20

**NAME OF RESPONSIBLE PERSON:** **DAVID O'SULLIVAN**
**POSITION:** **OPERATIONS MANAGER**
**DATE:** **17/04/26**

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